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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/974,029	10/10/2001	Minsheng Wang	T1-29408	7527		
23494	7590 10/18/2005	•	EXAM	EXAMINER		
	STRUMENTS INCOR	NGO, CH	NGO, CHUONG D			
P O BOX 655474, M/S 3999 DALLAS, TX 75265			ART UNIT	PAPER NUMBER		
2.1.2.1.0,		2193				
				DATE MAILED: 10/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Application	on No.	Applicant(s)				
Office Action Summary		09/974,02	29	WANG, MINSHENG				
		Examiner		Art Unit				
		Chuong D	. Ngo	2193				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICHI - Extensio after SIX - If NO per - Failure to Any reply	TENED STATUTORY PERIOD FOR REPEVER IS LONGER, FROM THE MAILING Ins of time may be available under the provisions of 37 CFR 1 (6) MONTHS from the mailing date of this communication. This is to reply is specified above, the maximum statutory perior perply within the set or extended period for reply will, by status received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	DATE OF TH I.136(a). In no evo d will apply and wi ute, cause the app	IIS COMMUNICATION ent, however, may a reply be tim Il expire SIX (6) MONTHS from lication to become ABANDONE	N.  nely filed  the mailing date of this of D (35 U.S.C. § 133).				
Status								
1)⊠ Re	1)⊠ Responsive to communication(s) filed on <u>09 August 2005</u> .							
2a) <u></u> ⊤ł	This action is <b>FINAL</b> . 2b) This action is non-final.							
3) <u></u> Si	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
clo	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.								
4a	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) <u></u> Cl	5) Claim(s) is/are allowed.							
6)⊠ CI	)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7)□ Ci	Claim(s) is/are objected to.							
8) <u></u> Cl	aim(s) are subject to restriction and/	or election re	equirement.					
Application	Papers							
9)∐ Th	e specification is objected to by the Examir	ner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority und	ler 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1.	1. Certified copies of the priority documents have been received.							
2.	2. Certified copies of the priority documents have been received in Application No							
3.	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)				•				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
	Draftsperson's Patent Drawing Review (PTO-948)  On Disclosure Statement(s) (PTO-1449 or PTO/SB/08	8)	Paper No(s)/Mail Da  5) Notice of Informal P	Mail Date ormal Patent Application (PTO-152)				
	of s)/Mail Date	-,	6) Other:	,,	. ,			

## **DETAILED ACTION**

1. The amendment filed 08/09/2005 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is the recitation at the end of claims 1 and 5 that "a number of lock cycles required for computing an output of the IIR filter is independent of a number of filter coefficients of the IIR filter"

Applicant is required to cancel the new matter in the reply to this Office Action.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In particular, the recitation at the end of claims 1 and 5 that "a number of lock cycles required for computing an output of the IIR filter is independent of a number of filter coefficients of the IIR filter" is not supported by the original disclosure.

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4. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 1, the recitations "a parallel n-th order IIR filter", line 1, and "operating ... on a time-sharing basis a plurality of time", line 4, are in definite as contracting to each other; claim 5 also has the same problem. Further, it is indefinite as whether "the IIR filter", line 8, refers to the n-th order IIR filter or he IIR filter of order less than n; this problem is also found in claims 3-5,7 and 8.

5. Claims 1-8 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by Constant (4,228,517).

Constant discloses in figures 1 and 2 an n-order IIR filter implemented by a lower-order IIR filter in a time-sharing basis, including means (3) as the claimed decoder for sequentially sets the filter coefficients (B) to the lower-order IIR filter (24,26-29), and the number of clock cycles required for computing an output of the IIR filter clearly independent of the values of the coefficients as the delay line sequentially sets coefficients one by one to the lower order IIR filter regardless the values of the coefficients.

6. Applicant's arguments filed 08/09/2005 have been fully considered but they are not persuasive because the feature that the applicant argues is not supported by the original disclosure.

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7. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The

examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong D Ngo

Primary Examiner

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10/13/2005